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Relevance scale ☐ ☐ ☐ ☐ ☐**1 [Fast detection of communication patterns in distributed executions](#)**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available: [pdf\(4.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [The model, language, and implementation of an object-oriented multimedia knowledge base management system](#)

Hiroshi Ishikawa, Fumio Suzuki, Fumihiko Kozakura, Akifumi Makinouchi, Mika Miyagishima, Yoshio Izumida, Masaaki Aoshima, Yasuo Yamane

March 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 1Full text available: [pdf\(3.23 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

New applications such as CAD, AI, and hypermedia require direct representation and flexible use of complex objects, behavioral knowledge, and multimedia data. To this end, we have devised a knowledge base management system called Jasmine. An object-oriented approach in a programming language also seems promising for use in Jasmine. Jasmine extends the current object-oriented approach and provides the following features. Our object model is based on functional data models and well-established ...

3 [An algebraic approach to static analysis of active database rules](#)

Elena Baralis, Jennifer Widom

September 2000 **ACM Transactions on Database Systems (TODS)**, Volume 25 Issue 3Full text available: [pdf\(391.93 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Rules in active database systems can be very difficult to program due to the unstructured and unpredictable nature of rule processing. We provide static analysis techniques for predicting whether a given rule set is guaranteed to terminate and whether rule execution is confluent (guaranteed to have a unique final state). Our methods are based on previous techniques for analyzing rules in active database systems. We improve considerably on the previous techniques by providing analysis criteria ...

Keywords: active database systems, confluence, database rule processing, database trigger processing, termination

4 Types and persistence in database programming languages

Malcolm P. Atkinson, O. Peter Buneman

June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Full text available:  [pdf\(7.91 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These languages ...

5 Version models for software configuration management

Reidar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Full text available:  [pdf\(483.54 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we focus ...

Keywords: changes, configuration rules, configurations, revisions, variants, versions

6 A structured approach for the definition of the semantics of active databases

Piero Fraternali, Letizia Tanca

December 1995 **ACM Transactions on Database Systems (TODS)**, Volume 20 Issue 4

Full text available:  [pdf\(4.15 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Active DBMSs couple database technology with rule-based programming to achieve the capability of reaction to database (and possibly external) stimuli, called events. The reactive capabilities of active databases are useful for a wide spectrum of applications, including security, view materialization, integrity checking and enforcement, or heterogeneous database integration, which makes this technology very promising for the near future. An active database system consists of ...

Keywords: active database systems, database rule processing, events, fixpoint semantics, rules, semantics

7 Technical reports

SIGACT News Staff


January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available:  [pdf\(5.28 MB\)](#)

Additional Information: [full citation](#)

8 Exception-based information flow control in object-oriented systems

Elisa Bertino, Sabrina De Capitani Di Vimercati, Elena Ferrari, Pierangela Samarati
November 1998 **ACM Transactions on Information and System Security (TISSEC)**, Volume 1 Issue 1

Full text available:  [pdf\(457.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


We present an approach to control information flow in object-oriented systems. The decision of whether an information flow is permitted or denied depends on both the authorizations specified on the objects and the process by which information is obtained and transmitted. Depending on the specific computations, a process accessing sensitive information could still be allowed to release information to users who are not allowed to directly access it. Exceptions to the permissions and restricti ...

Keywords: access control, confidentiality, information flow control, object-oriented databases and systems

9 On the translation of relational queries into iterative programs

Johann Christoph Freytag, Nathan Goodman

March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1

Full text available:  [pdf\(2.22 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper investigates the problem of translating set-oriented query specifications into iterative programs. The translation uses techniques of functional programming and program transformation. We present two algorithms that generate iterative programs from algebra-based query specifications. The first algorithm translates query specifications into recursive programs. Those are simplified by sets of transformation rules before the algorithm generates the final iterative form. T ...

10 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  [pdf\(613.63 KB\)](#)  [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Special issue on prototypes of deductive database systems: The aditi deductive database system

Jayen Vaghani, Kotagiri Ramamohanarao, David B. Kemp, Zoltan Somogyi, Peter J. Stuckey, Tim S. Leask, James Harland

April 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 2

Full text available:  [pdf\(2.67 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Deductive databases generalize relational databases by providing support for recursive views and non-atomic data. Aditi is a deductive system based on the client-server model; it is inherently multi-user and capable of exploiting parallelism on shared-memory multiprocessors. The back-end uses relational technology for efficiency in the management of disk-based data and uses optimization algorithms especially developed for the bottom-up evaluation of logical queries involving recursion. The front ...

Keywords: implementation, logic, multi-user, parallelism, relational database

12 A technique for constructing aspect weavers using a program transformation engine

Jeff Gray, Suman Roychoudhury

March 2004 **Proceedings of the 3rd international conference on Aspect-oriented software development**


Full text available:  [pdf\(1.11 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

As aspect-orientation grows in influence, the scope of applicability also will need to expand. The new approaches for improved modularization offered by aspect-orientation can provide benefits not only to new development efforts, but to legacy systems as well. A difficulty with legacy system adoption of aspect-orientation, however, is in the construction of new weavers for the disparate programming languages in which the legacy software is coded. In this paper, we describe our experience with us ...

13 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available:  [pdf\(9.37 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

14 Security and privacy: Securing web application code by static analysis and runtime protection

Yao-Wen Huang, Fang Yu, Christian Hang, Chung-Hung Tsai, Der-Tsai Lee, Sy-Yen Kuo

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available:  [pdf\(2.67 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Security remains a major roadblock to universal acceptance of the Web for many kinds of transactions, especially since the recent sharp increase in remotely exploitable vulnerabilities have been attributed to Web application bugs. Many verification tools are discovering previously unknown vulnerabilities in legacy C programs, raising hopes that the same success can be achieved with Web applications. In this paper, we describe a sound and holistic approach to ensuring Web application security. Vi ...

Keywords: information flow, noninterference, program security, security vulnerabilities, type systems, verification, web application security

15 Extending SQL-92 for OODB access: design and implementation experience

Jerry Kiernan, Michael J. Carey

October 1995 **ACM SIGPLAN Notices , Proceedings of the tenth annual conference on Object-oriented programming systems, languages, and applications**, Volume 30 Issue 10

Full text available:  [pdf\(2.10 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the design and implementation of a query engine that provides extended SQL-based access to the data managed by an object-oriented database system. This query engine allows extended SQL queries to be embedded in C++ programs or issued interactively as from a command line interface. The language supported by the engine is the complete SQL-92 select statement plus object extensions for navigating along paths and embedded structures, querying nested sets, and invoking member fun ...

16 Special issue on prototypes of deductive database systems: DECLARE and SDS: early efforts to commercialize deductive database technology

Werner Kießling, Helmut Schmidt, Werner Strauß, Gerhard Dünzinger
 April 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**,
 Volume 3 Issue 2

Full text available:  pdf(1.62 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


The Smart Data System (SDS) and its declarative query language, Declarative Reasoning, represent the first large-scale effort to commercialize deductive database technology. SDS offers the functionality of deductive reasoning in a distributed, heterogeneous database environment. In this article we discuss several interesting aspects of the query compilation and optimization process. The emphasis is on the query execution plan data structure and its transformations by the optimizing rule compiler ...

Keywords: declarative reasoning, distributed query processing, heuristic control, multi-databases, productization, query optimizer

17 Federated database systems for managing distributed, heterogeneous, and autonomous databases

Amit P. Sheth, James A. Larson

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Full text available:  pdf(5.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A federated database system (FDBS) is a collection of cooperating database systems that are autonomous and possibly heterogeneous. In this paper, we define a reference architecture for distributed database management systems from system and schema viewpoints and show how various FDBS architectures can be developed. We then define a methodology for developing one of the popular architectures of an FDBS. Finally, we discuss critical issues related to developing and operating an FDBS.

18 Special issue on prototypes of deductive database systems: The CORAL deductive system

Raghu Ramakrishnan, Divesh Srivastava, S. Sudarshan, Praveen Seshadri

April 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**,
 Volume 3 Issue 2

Full text available:  pdf(3.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


CORAL is a deductive system that supports a rich declarative language, and an interface to C++, which allows for a combination of declarative and imperative programming. A CORAL declarative program can be organized as a collection of interacting modules. CORAL supports a wide range of evaluation strategies, and automatically chooses an efficient strategy for each module in the program. Users can guide query optimization by selecting from a wide range of control choices. The CORAL system provides ...

Keywords: deductive database, logic programming system, query language

19 Active database systems

Norman W. Paton, Oscar Díaz

March 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 1

Full text available:  pdf(2.68 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Active database systems support mechanisms that enable them to respond automatically to events that are taking place either inside or outside the database system itself. Considerable effort has been directed towards improving understanding of such systems in recent years, and many different proposals have been made and applications suggested. This high level of activity has not yielded a single agreed-upon standard approach to the integration of active functionality with conventional database ...

Keywords: active databases, events, object-oriented databases, relational databases

**20** Optimizing object queries using an effective calculus

Leonidas Fegaras, David Maier

December 2000 **ACM Transactions on Database Systems (TODS)**, Volume 25 Issue 4Full text available:  [pdf\(641.65 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Object-oriented databases (OODBs) provide powerful data abstractions and modeling facilities, but they generally lack a suitable framework for query processing and optimization. The development of an effective query optimizer is one of the key factors for OODB systems to successfully compete with relational systems, as well as to meet the performance requirements of many nontraditional applications. We propose an effective framework with a solid theoretical basis for optimizing OODB query I ...

Keywords: nested relations, object-oriented databases, query decorrelation, query optimization

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